KOTHARI INTERNATIONAL SCHOOL
PUNE
SESSION 2023-24
SUMMER VACATION HOMEWORK
CLASS: XI (SCIENCE)

General Instructions

1. Write in clear and legible handwriting.
2. Complete all the homework in a separate subject notebook.
3. **DO NOT COPY AND PASTE FROM THE INTERNET**. (Assignments will be rejected).
4. In case of reference from the internet, you may:
    A. Read the content from the internet, if you wish and paraphrase (Rewrite in your own words)
    B. Mention the source of your information by providing the link from the internet for the verification by the teachers.
5. Marks awarded will be counted in the final scores at the end of the session.
6. The Summer Vacation HW will be submitted immediately upon arrival to school after Summer Vacation.

For any assignment related query do post your question on the E-Mail ID of the respective subject teacher. List of Subject Teacher's E-Mail ID attached.

Note :

- ***Complete all your assignments on time and submit them on the day you join school.***
- ***All books and notebooks to be covered with brown paper with a neat label pasted on the top right side.***

ENGLISH

Task 1- Project Work

Make a project on a topic of your choice, related to any of the themes from the prescribed text books with clear objectives and do research giving bibliography. The guidelines have been shared in class and on Campus Care. Also refer to the link below for the project portfolio. https://cbseacademic.nic.in/web_material/CurriculumMain23/SrSec/English_core_SrSec_2022-23.pdf (Refer to pages 15-17) The Project-Portfolio may include the following:

Cover page, with title of project, school details/details of students.

Statement of purpose/objectives/goals

Action plan for the completion of assigned tasks.

Materials such as scripts for the theatre /role play, questionnaires for interview, written assignments, essays, survey-reports and other material evidence of learning progress and academic accomplishment.

The 800-1000 words essay/Script/Report.

Student/group reflections.

Photographs that capture the positive learning experiences of the student(s).

List of resources/bibliography.

Task 2- for Portfolio

On an A4 sheet, make a poster on any two of the following:

a. Agniveer Scheme
b. World Environment Day
c. Rain Water Harvesting

Task 3- Creative Writing for Portfolio (A4 Sheet)

a. Imagine you were sailing on a ship to the Isle of Amsterdam which is between Australia and South Africa. Incorporate the factual details of this island to write a descriptive piece on your adventurous journey to this location.
a. Neatly draw and label parts of a ship and give it an imaginary name.

PHYSICS

1. Complete Exercise questions of following chapters
 (1) Unit and demonstrations (2) Motion in straight line.
2. Complete the Lab manual. Write twelve experiments in the Lab manual.
 Leave the reading part vacant.

CHEMISTRY

A. Make an investigatory project on any one of the following topic:

1. Checking the bacterial contamination in drinking water by testing sulphide ion
2. Study of the methods of purification of water
3 Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional variation in drinking water and study causes of presence of these ions above permissible limit (if any).
4. Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it
5. Study the acidity of different samples of tea leaves.
6. Determination of the rate of evaporation of different liquids.
7. Study the effect of acids and bases on the tensile strength of fibers.
8. Study of acidity of fruit and vegetable juices.

Things should be mentioned:

a) Aim
b) Apparatus required
c) Chemicals used
d) Principle
e) Procedure
f) Observation table
g) Result
h) Precautions
i) Bibliography

Where to Do - Make a file using A-4 size interleaf pages. Matter should be handwritten only.

Rubrics Parameters:

1.Format 2. Neatness 3. Presentation 4. Use of resources.

MATHEMATICS

1. Solve Trigonometry NCERT all questions (solved and unsolved questions)
2. Solve the worksheet for trigonometry provided in class.
3. Revise all chapters of class 9th and 10th math and make a formula sheet of all formulas.

ICT

Think of a simple application like a login page, or election entry and make a project using JFrame. Use at least 3 different components.

BIOLOGY

1. Selection of topic:

Select any 1 of the topics of your choice from the suggested topics list given below for the project, or you work and read different chapters of your syllabus and also consult scientific literature, magazines, newspapers, the internet etc.

2. Planning of the project:

Collect all possible available information about the topic of the project. Prepare a rough outline of the experimental work of the project.

3. Experimentation for the project:

Plan and conduct the experimental work/survey/collecting information with precision so that you are sure to get correct results. Following points should be kept in mind while performing the experiments for the project work.

1. Collect data with honesty and utmost care. Record only your observations and data.

2.Repeat the experiment (if experimental-based) several times and take the average of the results of all the experiments.

3. Compare your results with those available in the reference books.

4. Discuss your results in the light of available information about the project and draw out meaningful conclusions.

5. Make use of histograms, graphs, photographs, diagrams or models to support your observations and conclusions.

6. Give a list of books, magazines/journals and internet sites you have consulted during the course of your project.

7. Acknowledge the guidance, help and assistance rendered by your teachers, parents, neighbours and friends by expressing sincere gratitude and thanks to them in the beginning.

How to write:

Students are required to get their hand written project report on bond paper sheets and represent in the best possible manner. The project report should be written in the following sequence :(Can be changed as per the need)

1. Introduction – Information collected from various sources related to the topic.

2. Requirements – Materials required for experimental work.

3. Observations – Record your observations / data in the form of tables, histograms, graphs, photographs, etc.

4. Results / Conclusion – Give analysis of the data and compare your results with those available in the literature and draw conclusions.

5. References – Give the list of books, internet websites, magazines or journals you have consulted, for the project work.

TOPICS

1. Investigating pH of water samples.
2. Agrochemicals and their effects.
3. Effects of light on yeast
4. Investigating biochemical (also called as biological oxygen demand)demand of water sample as pollution indicator.
5. Population density of plants.
6. Effect of local industry on environment.

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